

In Re "Office Action Summary"

Box 2(b) is checked "this action is non-final". However, page 6, paragraph 12 states the action is final.

Undersigned believes the Office Action is non-final in accordance with one of several discussions with the Examiner in March.

In Re rejections under 35 U.S.C. 112

Paragraph 2: Claim 8 has been amended to provide antecedent basis.

Paragraph 3: The examiner states "knock-down coupling means" is not clearly defined. Undersigned disagrees.

For the Examiner's convenience, included herewith are definitions of "knock-down" taken from two dictionaries. The pages from the dictionaries are also included. These dictionaries agree that "knock-down" conveys meaning: "to take apart (something assembled) typically for convenience of moving, packing, storing, or shipping: disassemble (knocked the table down before boxing it)"; "to be adaptable to being knocked down (a portable device that easily knocks down)"; "something (as a piece of furniture) that can easily be assembled or disassembled"; "that can easily be put together or taken apart (as for convenience of storing or shipping): made up of parts that are readily assembled or disassembled (a piece of furniture)"; "not assembled or only partly assembled: consisting of parts that can be assembled".

Further, undersigned has included a page from the manual of classification. It is clear that the term "knock-down" has sufficient meaning in class 312 to warrant a major subclass (257.1), "knock-down or set up".

Further, "coupling means" has never been in issue – to the knowledge of undersigned – as to its meaning. Please confirm.

Prior Art rejections and 112 rejections

Ironically, the point of patentable novelty coincides precisely with the asserted confusion as to the meaning of “knock-down” coupling means. The Examiner must attach patentable weight to the “knock-down” term and to do so results in patentability.

Every facet of the application talks about modules that can be readily coupled and decoupled. The concept behind the term “knock-down” is well recognized both in dictionaries and the Patent Office classification.

The only relevant area where “knock-down” is not well recognized is in the art of tanning beds, which is the reason for the patent application. Nothing in the prior art negatives patentability of applicant’s knock-down tanning bed.

102 rejection

With respect to the rejection of claims 1, 20, and 24-29 under 35 U.S.C. § 102 as being anticipated by Brown (5,383,916), the Examiner is invited to consider the following binding, compelling precedent articulated by the Court of Appeals for the Federal Circuit:

“. . . anticipation requires that each and every element of the claimed invention be disclosed in a single prior art reference.” *Akzo N.V. v. United States ITC*, 808 F.2d 1471, 1 U.S.P.Q.2d 1241 (Fed. Cir. 1986).

Further, “those elements must either be inherent or disclosed expressly . . .” *Verdegaal Bros., Inc. v. Union Oil Co.*, 814 F.2d 628, 2 U.S.P.Q.2d 1051 (Fed. Cir. 1987). “. . . and must be arranged as in the claim[s] . . .” *Carella v. Starlight Archery & Pro Line Co.*, 804 F.2d 135, 231 U.S.P.Q. 644 (Fed. Cir. 1986).

In addition, ". . . [the] absence from the reference of any claimed element negates anticipation." *Kloster Speedsteel AB v. Crucible Inc.*, 793 F.2d 1565, 230 U.S.P.Q. 81 (Fed. Cir. 1986).

The Examiner is mistaken in characterizing Brown's teachings. Undersigned's arguments accompanying the Amendment filed on November 2, 2001 discussed those points, and are incorporated by reference and highlighted as follows. Unit 13 referred to by the Examiner is not part of Brown's invention, as it is designated by Brown as undesirable prior art. Unit 13 is part of a prior art bed with respect to Brown. Unit 13 may be entirely removed from the tanning bed, but servicing the components inside unit 13 requires complete disassembly to access the components inside (col. 2, lines 62-65). Brown's invention is found in his figure 6, not in his figure 1. Neither figure 1 nor figure 6 teaches applicant's invention.

Conversely, the electrical components of the instant invention are readily serviceable without complete disassembly. The ballast units are connected modularly, as noted at page 9 of the specification. The modules may be individually replaced, rather than requiring the entire assembly to be sent for servicing.

Brown clearly does not disclose knock-down coupling means, which, as shown, has definite meaning. Such term is clarified above. Without the teaching of knock-down coupling means, Brown cannot anticipate the present invention.

103 rejections

Undersigned has read the patents to Brown and Kramer et al. ('009) carefully and has failed to uncover the basis by which the Examiner has combined these references to support an obviousness type rejection of claims 2 through 7 and claims 13 through 16. Stated alternatively, there is no teaching within these citations that would warrant the combination of elements proposed by the Examiner and it is respectfully stipulated that applicant's structure would still not be obtained thereby. A specific teaching within one of the references suggesting the combination is required.

The Examiner has rejected claims 2 through 7 and 13 through 16 under 35 U.S.C. § 103(a) as being unpatentable over Brown in view of Kramer et al. ('009). Again, the Examiner states that Brown is cited for disclosing a removable unit disposed between his bench supports. Brown does not contain such a unit; it has been eliminated by storing the electrical components inside his bench supports (in his figure 6). Kramer et al. discloses a tanning bed that houses ballasts (32) between the bench supports, however, the ballasts are inside the bottom portion of the tanning bed.

Kramer et al. does not overcome the deficiencies of Brown with respect to the present invention. Kramer has nothing to do with knock-down structure. Brown does not teach ballasts, nor does it utilize knock down coupling means for easy disassembly. While Kramer does use ballasts in his system, they are housed in the bottom portion of the tanning bad and do not allow for ready access and servicing. The tanning bed of Kramer et al. is an awkward, integral monolith, while the tanning bed of the present invention is formed from easy to assemble modules. Kramer et al.'s tanning bed has no provisions whatsoever to be disassembled; the support frame (14, 18, 20) is unitary and prefastened to the lower unit (14) within its skin (Figure 7), while upper unit 16

connects via torsion spring preloaded to 3400 pounds (col. 6). The tanning bed of the present invention allows ready access for servicing and is easy to disassemble and to move. Each of claims 2 through 7 and 13 through 16 includes specific components that are specifically designated as "removable". Neither Brown nor Kramer teaches knock-down coupling means for easy disassembly and moving of the tanning bed, and neither allows, in any way, for ready access for repair and servicing via removable components of the tanning bed. Therefore, the rejections under 35 U.S.C. § 103 should be withdrawn.

The Examiner has also rejected claims 10 through 12, 18, 19, and 21 through 23 under 35 U.S.C. § 103(a) as being unpatentable over Brown in view of the Montego Bay brochure (3200 Legend). The deficiencies of Brown as a reference are noted above. Undersigned has reviewed the Montego Bay brochure and is puzzled with regard to the Examiner's statement at page 4 of the Office Action that the top portion of the bed is supported by a "hook". Undersigned can find no hook in any bed in the entire brochure and requests the Examiner's assistance in locating same.

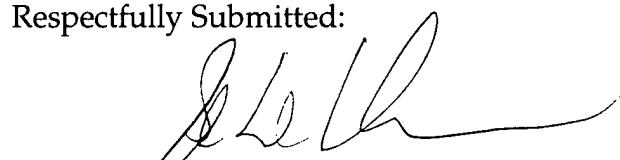
By contrast, the hook of the present invention attaches into a slit on the bottom portion of the bed (see reference number 142 in figure 5), not the top portion. Even if a hook were present in the top portion of the Montego Bay 3200 Legend bed, as the Examiner claims, this has no bearing on whether the claimed structure is obvious. This rejection should be withdrawn.

Simply stated, this invention is clearly patentable as claimed presently, once the Examiner acknowledges and gives weight to the "knock-down" terminology. A personal interview is requested.

In view of the foregoing, it is respectfully requested that the Examiner pass this case to issue. If, upon further consideration, the Examiner believes further issues remain outstanding or new ones have been generated, undersigned respectfully requests that the Examiner call undersigned to expeditiously resolve same.

Dated: July 12, 2002

Respectfully Submitted:



BERNHARD KRETEN
Applicant's Attorney
Telephone (916) 930-9700
Registration No.: 27,037



A GENUINE MERRIAM-WEBSTER

The name *Webster* alone is no guarantee of excellence. It is used by a number of publishers and may serve mainly to mislead an unwary buyer.

Merriam-Webster™ is the name you should look for when you consider the purchase of dictionaries or other fine reference books. It carries the reputation of a company that has been publishing since 1831 and is your assurance of quality and authority.

Copyright © 1996 by Merriam-Webster, Incorporated

Philippines Copyright 1996 by Merriam-Webster, Incorporated

Library of Congress Cataloging in Publication Data
Main entry under title:

Merriam-Webster's collegiate dictionary. — 10th ed.

p. cm.

Includes index.

ISBN 0-87779-708-0 (unindexed : alk. paper). — ISBN 0-87779-709-9 (indexed : alk. paper). — ISBN 0-87779-710-2 (deluxe : alk. paper). — ISBN 0-87779-707-2 (laminated cover).

1. English language—Dictionaries. I. Merriam-Webster, Inc.

PE1628.M36 1996

423—dc20

95-36076

CIP

Abbreviat

Merriam-Webster's Collegiate® Dictionary, Tenth Edition principal copyright 1993

COLLEGIATE is a registered trademark of Merriam-Webster, Incorporated

All rights reserved. No part of this book covered by the copyrights hereon may be reproduced or copied in any form or by any means—graphic, electronic, or mechanical, including photocopying, taping, or information storage and retrieval systems—without written permission of the publisher.

Made in the United States of America

16RMcN96

EXHIBIT A

make an L-shaped move of two squares in one row and one square in a perpendicular row over squares that may be occupied

knight vt (13c) : to make a knight of

knight-er-rant *Vnit-er-ant* n, pl **knight-s-errant** (14c) : a knight traveling in search of adventures in which to exhibit military skill, prowess, and generosity

knight-er-rant-ry *V-er-an-tré* n, pl **knight-s-errantries** (1654) 1 : the practice or actions of a knight-errant 2 : quixotic conduct

knight-hood *Vnit-húd* n (13c) 1 : the rank, dignity, or profession of a knight 2 : the qualities befitting a knight : CHIVALRY 3 : knights as a class or body

knightly *Vnit-lé* adj (14c) 1 : of, relating to, or characteristic of a knight 2 : made up of knights — **knight-li-ness** n — **knightly** adv

Knight of Co-lumbus *V-ka-lom-bus* n, pl **Knights of Columbus** [Christopher Columbus] (1882) : a member of a benevolent and fraternal society of Roman Catholic men

Knight of Pythias *V-pi-thé-as* n, pl **Knights of Pythias** (1869) : a member of a secret benevolent and fraternal order

Knight of the Mac-ca-bees *V-ma-ka-béz* n, pl **Knights of the Maccabees** (1922) : a member of a secret benevolent society

Knight Templar n, pl **Knights Templars** or **Knights** **Templar** (1610) 1 : **TEMPLAR** 2 : a member of an order of Freemasonry conferring three orders in the York rite

knish *Vkop-nish* n [Yiddish, fr. Pol. *knysz*] (1916) : a small round or square of dough stuffed with a filling (as potato) and baked or fried

knit *Vnit* vb **knit** or **knit-ted**; **knit-ting** [ME *knitten*, fr. OE *cnittan*; akin to OE *cnotta* knot] vt (bel. 12c) 1 **chiefly dial** : to tie together 2 a : to link firmly or closely **knitted** my hands b : to cause to grow together (time and rest will ~ a fractured bone) c : to contract into wrinkles (**knitted** her brow) 3 : to form by interlacing yarn or thread in a series of connected loops with needles ~ vi 1 : to make knitted fabrics or objects 2 a : to become compact b : to grow together c : to become drawn together — **knit-ter** n

knit n (1596) : **KNIT STITCH**; also : a knit fabric

knot **stitch** n (ca. 1885) : a basic knitting stitch usu. made with the yarn at the back of the work by inserting the right needle into the front part of a loop on the left needle from the left side, catching the yarn with the point of the right needle, and bringing it through the first loop to form a new loop — compare **PURL STITCH**

knit-ting n (15c) 1 : the action or method of one that knits 2 : work done or being done by one that knits

knit-wear *Vnit-war, -wer* n (1926) : knitted clothing

knob *Vnáb* n [ME *knobbe*; akin to MLG *knubbe* knob] (bef. 12c) 1 a : a rounded protuberance : LUMP b : a small rounded ornament or handle 2 : a rounded usu. isolated hill or mountain — **knobbed** *Vnábd* adj — **knob-by** *Vná-bé* adj

knob-bly *Vná-b(s)-lē* adj (1859) : having very small knobs (a ~ mattress)

knob-ker-rie *Vnáb-ker-é* n [Afrik. *knopkierie*, fr. *knop* knob + *kierie* club] (1844) : a short wooden club with a knob at one end used as a missile or in close attack esp. by Zulus of southern Africa

knock *Vnák* vb [ME *knokken*, fr. OE *cnocian*; akin to MHG *knochen* to press] vi (bef. 12c) 1 : to strike something with a sharp blow 2 : to collide with something 3 a : BUSTLE (heard them ~ing around in the kitchen) b : WANDER (~ed about Europe all summer) 4 a : to make a pounding noise b : to have engine knock 5 : to find fault ~ vi 1 a (1) : to strike sharply (2) : to drive, force, or make by or as if by so striking b : to set forcibly in motion with a blow 2 : to cause to collide 3 : to find fault with (always ~ing those in authority) — **knock cold** : **KNOCK OUT** 2a(1) — **knock dead** : to move strongly esp. to admiration or applause (a comedian who really **knocks them dead**) — **knock for a loop** 1a : **OVERCOME** (**knocked off** my opponent for a loop) b : **DEMOLISH** (**knocked off** our idea for a loop) 2 : **DUMB-FOUNDED**, **AMAZE** (the news **knocked them for a loop**) — **knock one's socks off** : to overwhelm or amaze one (a performance that will **knock your socks off**) — **knock together** : to make or assemble esp. hurriedly or in a makeshift way (**knocked together** my own bookcase)

knock n (14c) 1 a : a sharp blow : RAP, HIT (a loud ~ on the door) b (1) : a severe misfortune or hardship (2) : SETBACK, REVERSAL 2 a : a pounding noise b : a sharp repetitive metallic noise caused by abnormal ignition in an automobile engine 3 : a harsh and often petty criticism (likes praise but can't stand the ~s)

knock-about *Vná-ka-bút* adj (1880) 1 : suitable for rough use (~ clothing) 2 a : being noisy and rough : BOISTEROUS (~ games) b : characterized by boisterous antics and often extravagant, burlesque (~ comedy) 3 of a sailing vessel : having a simplified rig marked by absence of bowsprit and topmast (a ~ sloop) — **knockabout** n

knock back vt (ca. 1931) : **DRINK, SWALLOW**; specif. : to toss down (an alcoholic beverage)

knock-down *Vnák-dná* adj (1690) 1 : having such force as to strike down or overwhelm (a bewildering assortment of ~ arguments —J. W. Krutch) 2 : that can easily be assembled or disassembled (a ~ table)

knockdown n (1809) 1 : the action of knocking down 2 : something (as a blow) that strikes down or overwhelms 3 : something (as a piece of furniture) that can be easily assembled or disassembled

knock down *V-dná* vt (15c) 1 : to strike to the ground with or as if with a sharp blow : FELL 2 : to dispose of (an item) to a bidder at an auction sale 3 : to take apart : DISASSEMBLE 4 : to receive as income or salary : EARN (positions where they were able to **knock down** good money —*Infantry Jour.*) 5 : REDUCE

knock-down-drag-out or **knock-down-and-drag-out** adj (1834) : marked by extreme violence or bitterness and by the showing of no mercy (~ political debates) — **knock-down-drag-out** n

knock-er *Vnák-kár* n (14c) 1 : one that knocks: as a : a metal ring, bar, or hammer hinged to a door for use in knocking b : a persistently pessimistic critic 2 : BREAST — usu. used in pl; often considered vulgar

knock-kneed *Vnák-'néd, -nē* n (1879) : a condition in which the legs curve inward at the knees — **knock-kneed** *V-'néd* adj

knock-off *Vnák-óf* n (1966) : a copy that sells for less than the original; broadly : a copy or imitation of someone or something popular

knock off vi (1649) : to stop doing something ~ vi 1 : to do hurriedly or routinely (**knocked off** one painting after another) 2 : dis-

CONTINUE, STOP (**knocked off** work at five) 3 : DEDUCE little to make the price more attractive) 4 a : KILL men ... on mercenary grounds —Lewis Baker) b : to knock off each center of rebellion) 5 : ROB (**knocked off** banks) 6 : to make a knockoff of : COPY, IMITATE (dress designs)

knock-out *Vnák-áut* n (1887) 1 a : the act of **knocking out** b (1) : the terminal match when one boxer has been knocked down and resume boxing within a specified time (2) : **TECHNIQUE** c : a blow that knocks out an opponent 2 : something striking, appealing, or attractive — **knockout** adj

knock out vt (1856) 1 : to produce roughly or hastily defeat (a boxing opponent) by a knockout (2) : to make inoperative (the drug **knocked him out**) b : to make inoperative (the drug **knocked out** the storm) c : to get rid of (knocked out illegal gambling) 3 : to tire out : EXHAUST (themselves out with work) 4 : to cause (an opponent) removed from a baseball game by a batting rally

knockout drops pl (1895) : drops of a solution of a drug (as hydiate) put into a drink to produce unconsciousness or death

knock over vt (ca. 1814) 1 a (1) : to strike to the ground (2) : OVERWHELM (**was knocked over by the news**) 3 : to knock over every difficulty) 2 a : STEAL: esp. HIJACK (a truckload of merchandise —J. B. Martin) b : ROB (**knocked over**)

knock up vt (1663) 1 **Brit** : ROUSE, SUMMON 2 : to make (a drink) strong by adding water

knock sometimes considered vulgar

knock-wurst *Vnák-*, *-,wurst* also, *-vúrst*, sometimes *-vúrst* (1929) : a short thick heavily seasoned sausage

knoll *Vnól* n [ME *knol*, fr. OE *cnoll*; akin to ON *knoll* mounds] (bef. 12c) : a small rounded hill : MOUND

knoll vb [ME, prob. alter. of *knellen* to knell] (15c) **archaic** : to knock

knob *Vnáp* n [ME, fr. OE *cnapp* knob] (bef. 12c) : a usu. rounded protuberance

knob — **knobbed** *Vnáp* adj

knob *Vnát* n [ME, fr. OE *cnotta*] : a body of land

knob — **knobbed** *Vnáp* adj

knob *Vnát* n [ME, fr. OE *cnotta*] : a body of land

knob — **knobbed** *Vnáp* adj

knob *Vnát* n [ME, fr. OE *cnotta*] : a body of land

knob — **knobbed** *Vnáp* adj

knob *Vnát* n [ME, fr. OE *cnotta*] : a body of land

knob — **knobbed** *Vnáp* adj

knob *Vnát* n [ME, fr. OE *cnotta*] : a body of land

knob — **knobbed** *Vnáp* adj

knob *Vnát* n [ME, fr. OE *cnotta*] : a body of land

knob — **knobbed** *Vnáp* adj

knob *Vnát* n [ME, fr. OE *cnotta*] : a body of land

knob — **knobbed** *Vnáp* adj

knob *Vnát* n [ME, fr. OE *cnotta*] : a body of land

knob — **knobbed** *Vnáp* adj

knob *Vnát* n [ME, fr. OE *cnotta*] : a body of land

knob — **knobbed** *Vnáp* adj

knob *Vnát* n [ME, fr. OE *cnotta*] : a body of land

knob — **knobbed** *Vnáp* adj

knob *Vnát* n [ME, fr. OE *cnotta*] : a body of land

knob — **knobbed** *Vnáp* adj

knob *Vnát* n [ME, fr. OE *cnotta*] : a body of land

knob — **knobbed** *Vnáp* adj

knob *Vnát* n [ME, fr. OE *cnotta*] : a body of land

knob — **knobbed** *Vnáp* adj

knob *Vnát* n [ME, fr. OE *cnotta*] : a body of land

knob — **knobbed** *Vnáp* adj

knob *Vnát* n [ME, fr. OE *cnotta*] : a body of land

knob — **knobbed** *Vnáp* adj

knob *Vnát* n [ME, fr. OE *cnotta*] : a body of land

knob — **knobbed** *Vnáp* adj

knob *Vnát* n [ME, fr. OE *cnotta*] : a body of land

knob — **knobbed** *Vnáp* adj

knob *Vnát* n [ME, fr. OE *cnotta*] : a body of land

knob — **knobbed** *Vnáp* adj

knob *Vnát* n [ME, fr. OE *cnotta*] : a body of land

knob — **knobbed** *Vnáp* adj

knob *Vnát* n [ME, fr. OE *cnotta*] : a body of land

knob — **knobbed** *Vnáp* adj

knob *Vnát* n [ME, fr. OE *cnotta*] : a body of land

knob — **knobbed** *Vnáp* adj

knob *Vnát* n [ME, fr. OE *cnotta*] : a body of land

knob — **knobbed** *Vnáp* adj

knob *Vnát* n [ME, fr. OE *cnotta*] : a body of land

knob — **knobbed** *Vnáp* adj

knob *Vnát* n [ME, fr. OE *cnotta*] : a body of land

knob — **knobbed** *Vnáp* adj

knob *Vnát* n [ME, fr. OE *cnotta*] : a body of land

knob — **knobbed** *Vnáp* adj

knob *Vnát* n [ME, fr. OE *cnotta*] : a body of land

knob — **knobbed** *Vnáp* adj

knob *Vnát* n [ME, fr. OE *cnotta*] : a body of land

knob — **knobbed** *Vnáp* adj

knob *Vnát* n [ME, fr. OE *cnotta*] : a body of land

knob — **knobbed** *Vnáp* adj

knob *Vnát* n [ME, fr. OE *cnotta*] : a body of land

knob — **knobbed** *Vnáp* adj

knob *Vnát* n [ME, fr. OE *cnotta*] : a body of land

knob — **knobbed** *Vnáp* adj

knob *Vnát* n [ME, fr. OE *cnotta*] : a body of land

knob — **knobbed** *Vnáp* adj

knob *Vnát* n [ME, fr. OE *cnotta*] : a body of land

knob — **knobbed** *Vnáp* adj

knob *Vnát* n [ME, fr. OE *cnotta*] : a body of land

knob — **knobbed** *Vnáp* adj

knob *Vnát* n [ME, fr. OE *cnotta*] : a body of land

knob — **knobbed** *Vnáp* adj

knob *Vnát* n [ME, fr. OE *cnotta*] : a body of land

knob — **knobbed** *Vnáp* adj

knob *Vnát* n [ME, fr. OE *cnotta*] : a body of land

knob — **knobbed** *Vnáp* adj

knob *Vnát* n [ME, fr. OE *cnotta*] : a body of land

knob — **knobbed** *Vnáp* adj

knob *Vnát* n [ME, fr. OE *cnotta*] : a body of land

knob — **knobbed** *Vnáp* adj

knob *Vnát* n [ME, fr. OE *cnotta*] : a body of land

knob — **knobbed** *Vnáp* adj

knob *Vnát* n [ME, fr. OE *cnotta*] : a body of land

knob — **knobbed** *Vnáp* adj

knob *Vnát* n [ME, fr. OE *cnotta*] : a body of land

knob — **knobbed** *Vnáp* adj

knob *Vnát* n [ME, fr. OE *cnotta*] : a body of land

knob — **knobbed** *Vnáp* adj

knob *Vnát* n [ME, fr. OE *cnotta*] : a body of land

knob — **knobbed** *Vnáp* adj

knob *Vnát* n [ME, fr. OE *cnotta*] : a body of land

knob — **knobbed** *Vnáp* adj

knob *Vnát* n [ME, fr. OE *cnotta*] : a body of land

knob — **knobbed** *Vnáp* adj

knob *Vnát* n [ME, fr. OE *cnotta*] : a body of land

knob — **knobbed** *Vnáp* adj

knob *Vnát* n [ME, fr. OE *cnotta*] : a body of land

knob — **knobbed** *Vnáp* adj

knob *Vnát* n [ME, fr. OE *cnotta*] : a body of land

knob — **knobbed** *Vnáp* adj

knob *Vnát* n [ME, fr. OE *cnotta*] : a body of land

knob — **knobbed** *Vnáp* adj

knob *Vnát* n [ME, fr. OE *cnotta*] : a body of land

knob — **knobbed** *Vnáp* adj

knob *Vnát* n [ME, fr. OE *cnotta*] : a body of land

knob — **knobbed** *Vnáp* adj

knob *Vnát* n [ME, fr. OE *cnotta*] : a body of land

knob — **knobbed** *Vnáp* adj

knob *Vnát* n [ME, fr. OE *cnotta*] : a body of land

knob — **knobbed** *Vnáp* adj

knob *Vnát* n [ME, fr. OE *cnotta*] : a body of land

knob — **knobbed** *Vnáp* adj

knob *Vnát* n [ME, fr. OE *cnotta*] : a body of land

knob — **knobbed** *Vnáp* adj

knob *Vnát* n [ME, fr. OE *cnotta*] : a body of land

knob — **knobbed** *Vnáp* adj

knob *Vnát* n [ME, fr. OE *cnotta*] : a body of land

knob — **knobbed** *Vnáp* adj

knob *Vnát* n [ME, fr. OE *cnotta*] : a body of land

COPYRIGHT © 1961 BY G. & C. MERRIAM CO.

PREVIOUS EDITIONS

COPYRIGHT © 1909, 1913, 1923, 1924, 1926, 1927, 1930, 1934, 1950, 1953, 1954, 1957, 1959
BY G. & C. MERRIAM CO.

PHILIPPINES COPYRIGHT 1961 BY G. & C. MERRIAM CO.

PREVIOUS EDITIONS PHILIPPINES COPYRIGHT 1950, 1953, 1954, 1957, 1959
BY G. & C. MERRIAM CO.

PREVIOUS EDITION COPYRIGHT 1925 IN PHILIPPINE ISLANDS
BY G. & C. MERRIAM CO.

ALL RIGHTS RESERVED

UNDER INTERNATIONAL AND PAN-AMERICAN COPYRIGHT CONVENTIONS
BY G. & C. MERRIAM CO.

All rights reserved

MADE IN THE U. S. A. ==

R. R. DONNELLEY & SONS COMPANY, THE LAKESIDE PRESS, CHICAGO, ILL., U. S. A.
COMPOSITOR

H. O. HOUGHTON AND COMPANY, THE RIVERSIDE PRESS, CAMBRIDGE, MASS., U. S. A.
PRINTERS AND BINDERS

EXHIBIT

B

hazardly : BUSTLE
icy M. Montgomery) & alone at a reasonable or move about in travel about in a care-particular objective about, around (←ing ~ around the world a couple of weeks) n. c (1) : to lead an circumstances : live content to ~ about (→ing ~ R.W. Southern) W.B. Yeats) (2) : to complete inaction, lively or idly : hang out, around (used to have my pictures Bromfield) 4 a : to use (as of loose contacts in a machine that or as of improperly combustion engine) etonation (sense 2) of something esp. in something adversely & perpetually (→ing) ummy) and call for a yeller may ~) ~ by blow to : strike ; BUFFET (←ed him right road will ever y or as if by dealing in the head (he can → Ernest Hemingway) 3 : to affect in anly, beating, battering road to pieces to produce or make the wall) (a workbedrooms ~ed into sudden move with her mallet) or ~ed the baseball direction (←ed the onto an indicated p blow, thrust, or ~ed a nail up into driving with a short d swiftly) (2) : to cl by or as if by a → Henry Baerlein) such notions out of interest out of it down by or as if the head off the ice) (4) of a dog moved in and ~ed

BOTHER, DISTURB and nothing can ~ knock out (sense her clenched fist to make a strong esp) : to move to try audience like to collide fairly to strike against, oil drums against they were going sick of esp. in a versely and often oral of our times) (instructions is) 4 : to obtain man who can ~ (cold : to knock and was knocked sp. to admiration really knocks a loop — Knock completely vanquish) : to make short is faith in human cause to be at a VZE, DUMBOUNDED into a cocked all our plans : industry into a erly disprove (a ed hat) 2 : to that'll knock all hat —John Gals- the head 1 : to knocked on the to check (as a end to : squelch, —U.S. News & o cause (an op- same by hitting knock spots off t of : to surpass if anybody I've either : to make way (knocked

sen, knoken, v.) loud ~ on the treatment (the grasp on reality is and hard ~s the world —M.N. pts, or reverses SAL, UPSET (ap- events —Mollie g, or pounding chin or as of n engine) (was on 2 (a motor often petty faultsm (likes praise worry what in cricket (won

to move irregu- by or as if by ed and shoved real roughly or t physically or

ous farcical humor of the kind found in knockout comedy (the retorical scene was good ~ —Loebbees) 2 a Austral : a handyman a sheep station b : one that wanders about or travels in an irregular, haphazard, or aimless way ; WANDERER, VAGRANT (a man without family, a ~ —D.C. Peatlie) 3 : a sloop with a simplified rig marked by absence of bowsprit and topmast and by having a single headsail on the forestay 4 : something designed or suitable for rough or casual informal use; as : B : an article of clothing (as a coat, hat) designed or suitable for such use b : an unpretentious vehicle esp. designed or suitable for short trips or other casual informal use (a secondhand car that will serve as a ~) (was now in a one-cylinder ~ which in every way lived up to its name —William Beebe) knockout war of KNAKAWAY

knock back v. t, chiefly Brit : SWALLOW; specif : to toss down (an alcoholic beverage) (smelt of the brandy they had just been knocking back —Bruce Marshall)

knock-back \n'kɒk bæk\ n-s [fr. knock back, v.] Austral : REBUFF, REJECTION (he's had a knock-back from his old man —John Morrison)

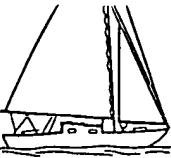
knock down v. t 1 a (1) : to strike to the ground or lay low with or as if with a short sharp blow : FELL, PROSTRATE (hit him on the chin and knocked him down) (2) : to lower in degree : tone down : put down (needs to have his self-esteem knocked down) : HUMBLE, HUMILIATE (try not to frustrate him or knock down his cap —Education Digest) b : to hit with or as if with a projectile or other missile and cause to fall : shoot down (thinking of ways to knock planes down from the skies —J.P. Baxter b.1893) : bring down by a shot : ROT (knocking down game birds) c (1) : to dispose of effectively : put out of the way ; get rid of : ELIMINATE, QUASH (each objection had been knocked down —Times Lit. Supp.) (2) Austral : to spend (money) with abandon (knock down their checks there —George Farwell) d : to check or abate (flames or heat) at the edges of a blazing area 2 : to cause (a vessel) to heel over or list heavily or beyond recovery (lets the wind blow on both sides of the sail) . . . and the boat cannot be knocked down —Peter Heaton) 2 : to dispose of to or as if to a bidder at an auction sale (knocked the clock down for a trifling sum) 3 : to take apart (something assembled) typically for convenience of moving, packing, storing, or shipping : DISASSEMBLE (knocked the table down before boxing it) 4 a slang (1) : to appropriate dishonestly : STEAL (knocked down plenty of the cash without getting caught) (2) : ROB (knocked down a bank) b : to receive as income or salary ; make by earning : EARN, DRAW, GET (positions where they were able to knock down good money —Infantry Jour.) (were knocking down close to \$150,000 a year —Newspaper) 5 : to hammer out the round and joints of (a book) to be rebounded) after removal of the cover; also : to flatten out the frayed ends of (cords or bands) after lacing in 6 : to make a reduction in (an amount) : REDUCE, LOWER (knocked the price down a dollar or two) 7 : LOWERCASE (knocking down an initial letter that had been printed as a capital) ~ v. t : to be adaptable to being knocked down (a portable device that easily knocks down) 2 of wind or a body of water : to become tranquil ; SUBSIDE (the sea was knocking down steadily —R.F. Mirvish)

knockdown \n'kɒkdaun\ n-s [knock down] 1 a (1) : the action of knocking down (a general of prices —Newspaper) (2) : the condition of being knocked down; specif : the condition of a ship (as a sailboat) that is heeling over, listing heavily, or beyond recovery from the impact of wind or water b (1) : a temporary or permanent disordered state that is produced in an insect by an insecticide or other control agent and that is marked by cessation of the insect's normal activity and often followed by the insect's death (2) : the degree to which an insecticide or other control agent successfully incapacitates or kills insects (3) : the percentage of a test group of insects that is successfully incapacitated or killed by an insecticide or other control agent — compare KILL 1c 2 a : a blow that knocks down (watched for the first ~ in the fight) b : an overwhelming or crushing blow (as of misfortune) : a severe setback (it was a bad ~ for both of us —Lucien Price) 3 : something (as a piece of furniture) that can easily be assembled or disassembled 4 slang : an introduction to a person (give a guy a ~ to your girl friends —Jerome Weidman)

knockdown \n'kɒkdaun\ adj [partly fr. knock down, partly fr. knock-down] 1 a : that knocks down or is capable of knocking down (a ~ jab to the jaw) : having such force or strength as to strike down : PROSTRATING, INCAPACITATING (his schemes have met a ~ blow —Amy Lowell) (the ~ power of an insecticide) b (1) : that cannot be successfully opposed : OVERWHELMING, OVERPOWERING (a bewildering assortment of ~ arguments —J.W. Krutch) (would provide an almost ~ proof —A.G.N. Flew) : CRUSHING (a ~ defeat) (2) : to give hindrance or objections relentlessly aside by sheer force or drive : BULLDOZING (his ~ style of polemics —W.E. Woodward) : bluntly assured : CATEGORICAL (he had his ~ answer for anyone who questioned his qualifications —Van Wyck Brooks) c : KNOCK-DOWN-AND-DRAG-OUT (can explode any moment into a ~ fight —Newspaper) 2 a : that can easily be put together or taken apart (as for convenience of storing or disassembling) : made up of parts that are readily assembled or disassembled (a ~ piece of furniture) b : KNOCKED-DOWN 3 a : lowest possible : MINIMUM (the auctioneer set the ~ bid at \$5.00) b : extremely low (can make the trip at ~ cost) : REDUCED (bought supplies at ~ prices) knock-down-and-drag-out \n'kɒkdaun'nd'reg'au\ or Knock-down, drag-out \n'kɒkdaun'nd'reg'au\ adj (knock down + and + drag out, v.) : marked by extreme violence or bitterness and by the giving of no quarter : carried to the last extremity (a knock-down-and-drag-out fight) (knock-down-and-drag-out political debates) (one of the toughest knock-down, drag-out little battles ever fought —Infantry Jour.)

knock-down-and-drag-out \n'kɒkdaun'nd'reg'au\ n-s : a knock-down-and-drag-out fight or controversy (are both spoiling for a real knock-down-and-drag-out on this issue —New Republic)

knocked past of KNOCK 1 : one that knocks: as a : usu. ornamental fixture attached to the outer surface of a door and consisting typically of a metal plate to which a metal ring or bar or hammar is hinged that may be raised and lowered with sharp force against the surface of the plate or door so as to produce a rattling noise designed to indicate one's desire to gain admittance b dial Eng : a spirit or goblin believed to dwell in mines and to



knockabout 3

gerund of knock over) : the action of a knitting machine device that pushes the newly formed loops off the needles

knock-up \n'kɒk'ʌp\ n : condition in which the legs curve inward at the knees as a result of disease or unphysiologic stresses on the bones (afflicted with knock-knee)

knock-kneed \n'kɒk'ni:d\ adj 1 : having knock-knee (an emaciated knock-kneed child) 2 a : functioning or moving awkwardly or jerkily or laboriously (a knock-kneed mind) (knock-kneed lines of verse) : LIMPING, LAME, INEPT, WEAK (knock-kneed excuse) b : devoid of smoothness and grace : CLUMSY, GAUCHE (a knock-kneed collection of provincial practitioners —Times Lit. Supp.) (a knock-kneed vase in the foreground —H.L.Mencken)

knock-knees \n'kɒk'ni:z\ n, pl : knees that approach each other or knock together because of knock-knee (developed knock-knee at an early age)

knock-less \n'kɒkli:s\ adj : having or producing no knock (a ~ motor fuel) : devoid of knocks (the easy sheltered ~ unshocked life —Forum)

knock-me-down \n'kɒk'me'daun\ adj : that overpowers or overwhelms

: BULLDOZING (knock-me-down Johnsonian pragmatism —George Saintsbury) (a knock-me-down doctrine —Joseph Conrad)

knockmeter \n'kɒk'metə\ n : an instrument that measures the intensity of knock (sense 2)

knock off v. i 1 : to discontinue doing something; specif : to cease from work or some other occupation (knocks off for several days and lolls about in pajamas —E.P. Snow) 2 slang

: DIE ~ v. t 1 a : to do esp. in a hurried or routine way : take care of ; get through with : attend to : DISPATCH (knocking off routine duties with very little thought) b : to produce esp. roughly or hastily : turn out hurriedly (knock off one book after another) 2 a (1) : to discontinue (work or some other occupation) : leave off (arranged that they should knock off work at five —Nevel Shute) : desist from : STOP, QUIT (2) : to cause to leave off from (work or some other indicated occupation) : DISMISS (the foreman knocked off the workers for lunch) (told them he was tired of their talking and that he wished they would knock it off) b : to dispense with : pass over : SKIP (hoped that the usual inspection would be knocked off) 3 : DEDUCT (knocked off 20 cents to make the price more attractive) 4 a : to take into custody : SEIZE, ARREST, NAB (had enough sense not to get knocked off by the police —Richard Llewellyn) b : RAID (knocked off a gambling joint) 5 a : KILL, MURDER (knocked off two men, purely on mercenary grounds —Lewis Baker) b : OVERCOME, DESTROY (knocked off each center of rebellion) c : to get rid of : ELIMINATE (knocked off every objection) (usually has to knock off only one or two opponents —W.S. Carlson) d : to dispose of to or as if to a bidder at an auction sale : knock down 6 a slang (1) : STEAL (knocked off a few trinkets in the store) (2) : ROB (knocked off a couple of banks) b : RECEIVE, GET, OBTAIN (knocks off a Nobel prize —Ethel Merman) 7 : to swallow down ; toss off : finish of (ordered a schooner of beer and knocked it off with unaffected enthusiasm —A.J. Liebling)

knock-off \n'kɒk'of\ n, pl knock-offs [knock off] 1 : the action of knocking off; esp : the automatic coming to a halt of a machine or of part of a machine through the action of a device actuated when the functioning of the machine becomes faulty 2 : a cam or other device designed to safeguard a machine or part of a machine from continuing to function when operation becomes faulty 3 : the time set for leaving off from work or from some other occupation (finished the greater part of the job long before knock-off)

knock on v. t : to knock onward : knock forward; specif : to knock (the ball in rugby) forward in the direction of the opponents' dead-ball line with the hand or arm

knock-on \n'kɒk'ən\ n, pl knock-ons [knock on] : the action of knocking on

knock-on \n'kɒk'ən\ adj [knock on] : produced or projected as a result of the collision of an energetic particle (as a neutron or fission fragment) from outside an atom with an elementary particle inside (a knock-on shower of particles) (a knock-on atom) (a knock-on electron)

knock out v. t 1 a : to produce esp. roughly or hastily : turn out hurriedly (in that same month he knocked out eleven novelties —Time) b : to get through with : take care of esp. in a hurried or routine way : attend to : DISPATCH (quickly knocked out the few things that had to be looked after) 2 a (1) : to fell (a boxing opponent) by hitting esp. on the chin and making unconscious or otherwise unable to rise or continue within a specified time (knocked him out in the first round) (2) : to make unconscious or to stupefy esp. by hitting on the head (the flowerpot hit him on the head and knocked him out) b (1) : to make the further use of impossible without replacement or repair : put out of commission : make inoperative (telephone communications had been knocked out) : DEMOLISH, DESTROY (knocking out the bridges and an ammunition dump —Lee Rogow) (knocked out twelve transport aircraft —Time) (2) : to put an effective end to ; get rid of : ELIMINATE, CRUSH, SQUASH, SQUELCH (knocked out commercial gambling —A.E. Stevenson b.1900) 3 a : to make (as oneself) exhausted : tire out ; wear out (knocked themselves out with excessive work) b : to exert (as oneself) to the breaking point or beyond endurance : exert to the utmost : drive to the point of exhaustion (knocking myself out to get top grades —W.H. Whyte) (knocked ourselves out preparing for the grand opening —Polly Adler) 4 : to strike (the inverted bowl of a pipe of tobacco) on something or with something so as to cause burning or burned tobacco to fall out (knocked his pipe out before refilling it) 5 : to knock out of the box (the pitcher was knocked out in the fifth inning) knock-out \n'kɒk'əut\ n-s [knock out] 1 Brit : an auction or sale or similar transaction at which a combination (as of bidders) illegitimately forces out other potential competitors and arranges by prior agreement to have one member of the combination secure at a set price the thing being offered so as to later to profitably dispose of the thing (as by reauctioning) 2 a (1) : the act of knocking out or the condition of being knocked out (2) : a blow or attack that knocks out (won the fight by a ~) (an attempted early ~ by the enemy —R.W. Stokley) b (1) : termination of a bout in boxing that occurs when an opponent is knocked out (2) : TECHNICAL KNOCK-OUT 3 : something sensationaly striking or attractive : something altogether out of the ordinary or superlatively excellent (she combines looks with poise and is a ~ at any party) (a hilarious book that is a real ~) (has produced a new film that is a ~) 4 a : something (as a set of pins in a die) that can be loosened or forced out typically to release or force out something else (as work in a punch or die) b (1) : a partially punched-out or cutout piece esp. in metal or plastic designed to be forced out when an opening is required ; esp : such a partially punched piece in the side of a junction box (2) : the hole produced when such a piece is forced out

knockout \n'kɒk'əut\ adj [partly fr. knock out, partly fr. knockout] 1 a : that knocks out: as (1) : that makes unconscious or

: HIJACK (knocks Martin) b : RO McCarter) 3 : to good sum each year or applause (white knuckles one or knockover \n'kɒk'əvər\ adj : the condition of knock poker n : a cards and attempts discards as in rum knock rummy n : the winner is the cards and in which knocks pres. 3d sin. knock under vi, ai : YIELD (who should H.D. Thoreau) knock up v. t (with little thought us —Irwin Shaw) acquaintance with small wooden buck Pinckney) c : to shuttlecock) in w. minton, squash) by knocking at the 3 a : to make exhibit : knocked me up —G. edition : cause to be knocked them up) competition had a 6 : WOUND, HURT (over there —that is gets knocked up —score) : MAKE, ACHIEVE receive as income pregnant (no girl knocked up —Ernest TURB, BOTHER (felt to knock down (slyly exhausted or of beasts had knock Idriess) 2 : to ch dedicated —used with difficulties) (happening 3 : to practice info for a match (as in knockup \n'kɒk'əp\ n (volleying) in warm knockwurst var of knock-den \n'kɒk'den\ n, dial Eng : KNEADED knib-del or knoe-deel fr. OHG knido —knoe-ve-na-gel re-kenoevenagel cond venagel f1921 Ger catalyzed by amine: ketone and a comp (as in esters of acetic acid)

knoll \n'kɒl\ n-s [a cloud, lump, tuber, O more at KNOT] 1 a usu. small rounded of a body of water; (2) : a usu. ^{ref} bank, or bar

: HOLLOW HILLOCK

knoll \n'kɒl\ n-s [Mi arachne : KNEEL

knoll \n'kɒl\ adj : m: try)

knock hardness \n'kɒk'hardnəs\ cent. Am. chemist) metal) that is determined by pointed diamond pr

knop \n'kɒp\ n-s [a

: MLG knuppe, knop

knop : knot, bud, kno

knob : a : a small

knob : protuberance

the stem of a vessel (the shank or shaft andiron) and that u:

b : KNOB b : c : a

silk, cotton) that is

and that is often of

thread, or cloth or

formed in or on the

knop : n, pi, n

mineralogist + G-:

knopped \n'kɒpt\ adj

more knops (a glass

knob : a gall that is

immature acorns and

knop : pie spider \n'kɒp

knob : bud — more : spiders (Latrodectus

South Africa that widow

knop's solution \n'kɒp'səlju:n\ n

growth experiments

proportions of calcite

sulfate, monobasic p

ride dissolved in wat

knop : yarn n : a ply

twisting one ply fast

knorhaan also knoop

knor-ria \n'kɒrəi\ n, n

Ger. collector of pet

based on fossil stem

date in structure bet

knop : n \n'kɒp\ n-s [a

knob, bud, knob —n

knos-si-an also chnos

adj, usu cap [Knossos

adj, E -ian)

city of Knossos



knocker 1a

EXHIBIT "B"

DECEMBER 1996

204	SIMULATION, ORNAMENTATION OR WITH SECRET COMPARTMENT	234.2	..Correlated list
205	EXPANSIBLE	234.3	..On closure
206	FOR BRUSH, BROOM OR MOP	234.4	..Labels affixed to shelves and/or partitions
207	.Projecting article handle	234.5	..Labeled movable supports
208.1	FOR KEY-BOARD WRITING MACHINE (E.G., TYPEWRITER)	235.1	WITH STEP
208.2	.Including work-sheet storing area	235.2	WITH SEAT OR REST
208.3	.Having particular machine-cover detail	235.3	.Seat storable within cabinet
208.4	.Portable	235.4	.Component rearrangeable to form seat
208.5	FOR SEWING MACHINE	235.5	.Cabinet with seat structure
208.6	.Portable	235.6	..Cabinet forming armrest
209	LABORATORY, DENTAL, BARBER OR MEDICAL	235.7	..Cabinet forming backrest
210	MASK OR SCREEN TYPE	235.8	.Diverse cabinet adapted to be mounted upon seat
210.5	WITH SIFTER	235.9	.Diverse seat and cabinet fixedly connected (e.g., classroom desk)
211	WITH DEPOSIT AND COLLECTION COMPARTMENT	236	WITH HEATING, COOLING OR HEAT EXCHANGE MEANS
212	.Movably mounted		COMBINED
213	FORAMINOUS EXTERIOR WALL		ROOM CORNER TYPE
400	SPACED INSULATED WALL	237	WITH USER ACCOMMODATING RECESS
401	.Refrigerator cabinet	238	CONVERTIBLE
402	..Including exterior-access drawer	239	.To table only
403	..Including hot compartment	240	MOUNTED IN WALL OR PANEL RECESS
404	..Including particular storage compartment	241	SELECTIVE DIVERSE CABINET SUPPORTS
405	..Closure structure	242	WITH CARRYING HANDLE
405.1	...Having article support	243	MOUNTED ON WALL, CEILING OR SPACED PANELS
406	..Wall structure	244	.Movably mounted housing or compartment
406.1	...Including means to relieve thermal stress	245	..Vertically
406.2	...Wall-ends connection	246	..Pivots only
407	...Refrigerating-zones divider	247	KNOCKDOWN OR SETUP TYPE
407.1Having opening	248	.Foldable
408	..Shelf or shelf-supporting structure	257.1	..Flexible cardboard-type walls
409	.Fire-resistant cabinet	258	...Slidable closure or guides
410	.Particular oven shelf, rack, or support therefore	259	...Slidable compartment or guide
215	WITH LOCK OR LATCH SELECTOR-OPERATOR	260	..Sidewalls hinged to rigid backwall
216	GANG-BAR TYPE LOCKING OR LATCHING MEANS	261	.Adjacent walls rigidly interlocked
217	.Concealed	262	.Opposite walls rigidly interlocked
218	..With push or pull rod as operator	263	..Interior tie members, externally accessible
219	..With separable key as operator	264	.Skeletal frame
220	..With closure as operator	265	..Parallel panels connected by skeletal frame members
221	..With movable compartment as operator	265.1	...Parallel panels are vertically oriented
222	LATCH ACTUATED BY COMPONENT OR ITS LATCH	265.2	..Free-standing in final configuration
224	WITH MIRROR	265.3	.Connecting panels
225	.Plural	265.4	.Removable panel
226	.Movably mounted	265.5	WITH CONTINUOUSLY LEVEL REVOLVABLE COMPONENTS
227	..With, on, or forming, closure	265.6	.Continuously housed
228	WITH BASIN OR TUB	266	..On flexible endless conveyor
228.1	.Having particular shelf or rack	267	.Interconnected with pivoted rigid housing wall
229	WITH LIQUID DRAIN, DUST COLLECTOR OR GUARD	268	HAVING A MOVABLE COMPARTMENT WITH IN-HOUSED COVER
230	WITH ERASABLE SURFACE (E.G., BLACKBOARD)	269	.Pivots only movable compartment
231	WITH DRAFTING BOARD	270.1	.Horizontally movable compartment
232	WITH INKWELL		
233	WITH BOOK SUPPORT		
234	WITH EXHIBITOR, INDICATOR OR SAMPLE		
234.1	.With contents indicia	270.2	
		270.3	

EXHIBIT C



Bracketed and Underlined Claims

Claim 1 (amended) - A tanning bed comprising in combination:

a plurality of modules selected from the group including a tanning bed, a canopy, a bed support, a canopy support, and a ballast assembly collectively defining components of said tanning bed,

and knock-down coupling means integral with said components for easily removing and assembling said components into an operational tanning bed.

Claim 8 (amended) - A tanning bed comprising in combination:

a plurality of modules collectively defining components of said tanning bed, said components including a pair of spaced bench supports including a ballast housing interposed between said bench supports and means fixing said ballast housing to said bench supports in removable relationship thereto, wherein said bench supports cradle a bench in removable overlying relationship thereto, said bench provided with illumination means for tanning, and wherein said bench supports fasten to a [said] canopy and a pair of posts project upwardly from said bench supports in frictional telescoping relationship, said posts including a pivot that supports a link operatively coupled to said canopy and adapted to allow said link and said canopy to move from a first open position wherein a tanner can lie on the bed to a second closed position where said canopy is in overlying relationship with respect to said bed and said tanner, and gas shock means operatively coupled with said link and said post in a path of heat radiation whereupon gas within said shock elevates in temperature upon utilization of said bed increasing the effectiveness of said gas shock;

said [a] canopy operatively connected to said bench by removable attachment means, said canopy provided with illumination means for tanning; and

knock-down coupling means for assembling said components into an operational tanning bed.



Pending Claims - July 12, 2002

Claim 1 - A tanning bed comprising in combination:

a plurality of modules selected from the group including a tanning bed, a canopy, a bed support, a canopy support, and a ballast assembly collectively defining components of said tanning bed,

and knock-down coupling means integral with said components for easily removing and assembling said components into an operational tanning bed.

Claim 2 - The bed of claim 1 wherein said components include a pair of spaced bench supports including a ballast housing interposed between said bench supports and means fixing said ballast housing to said bench supports in removable relationship thereto.

Claim 3 - The bed of claim 2 wherein said bench supports cradle a bench in removable overlying relationship thereto, said bench provided with illumination means for tanning.

Claim 4 - The bed of claim 3 including a canopy pivotally connected to said bench by removable attachment means, said canopy provided with illumination means for tanning.

Claim 5 - The bed of claim 4 wherein said ballast housing includes a pair of outwardly and downwardly projecting L-shaped legs which overlie and grasp portions of said bench supports.

Claim 6 - The bed of claim 5 wherein said ballast housing receives therewithin a plurality of ballast units formed as modules, each of said modules formed from choke ballasts oriented in series and terminating at a plug.

Claim 7 - The bed of claim 6 wherein the illumination means are a plurality of ultraviolet lights connected in series to said choke ballasts such that collectively said choke ballasts and said lights maintain current at a substantially constant level.

Claim 8 - A tanning bed comprising in combination:

a plurality of modules collectively defining components of said tanning bed, said components including a pair of spaced bench supports including a ballast housing interposed between said bench supports and means fixing said ballast housing to said bench supports in removable relationship thereto, wherein said bench supports cradle a bench in removable overlying relationship thereto, said bench provided with illumination means for tanning, and wherein said bench supports fasten to a canopy and a pair of posts project upwardly from said bench supports in frictional telescoping relationship, said posts including a pivot that supports a link operatively coupled to said canopy and adapted to allow said link and said canopy to move from a first open position wherein a tanner can lie on the bed to a second closed position where said canopy is in overlying relationship with respect to said bed and said tanner, and gas shock means operatively coupled with said link and said post in a path of heat radiation whereupon gas within said shock elevates in temperature upon utilization of said bed increasing the effectiveness of said gas shock;

said canopy operatively connected to said bench by removable attachment means, said canopy provided with illumination means for tanning; and

knock-down coupling means for assembling said components into an operational tanning bed.

Claim 9 - The bed of claim 8 wherein said link is received within a hollow of said canopy, said canopy including an abutment which captures a latch projecting from said

link, said hollow including a bead which frictionally resides against a terminus of said link.

Claim 10 - A tanning bed comprising in combination:

a plurality of modules collectively defining components of said tanning bed, said components including a pair of spaced bench supports including a ballast housing interposed between said bench supports and means fixing said ballast housing to said bench supports in removeable relationship thereto, wherein said bench supports cradle a bench in removeable overlying relationship thereto, said bench provided with illumination means for tanning and wherein said bench attaches to said bench supports on one edge thereof by means of a projection on said bench support being received within a complementally formed slit on said bench, said slit provided with adequate clearance to allow articulation of said bench about said projection;

a canopy operatively connected to said bench by removeable attachment means, said canopy provided with illumination means for tanning; and

knock-down coupling means for assembling said components into an operational tanning bed.

Claim 11 - The bed of claim 10 wherein an opposite side of said bench includes another slit which receives a hook supported on said bench support, said hook having releasable fastening means to release said bench relative to said bench support.

Claim 12 - The bed of claim 10 including a stand member which is interposed between said bench support and said bench to allow said bench to remain in an elevated secure position above said bench supports.

Claim 13 - The bed of claim 4 wherein a cover is provided on a concave surface of said bench and is fixed within a peripheral ledge on said bed circumscribing said

cover, said cover residing on said ledge, and a plurality of fins interposed between clusters of illumination means and underlying said cover, said cover frictionally held from said bench by means of gaskets.

Claim 14 - The bed of claim 4 wherein said canopy and said bench includes a plurality of air passageways extending longitudinally along said canopy and said bench providing cooling air from end walls of said canopy and said bench through filters located at said end walls and slits in said canopy and said bench to exhaust air by a fan mounted adjacent said slits and controlled by a temperature sensing means.

Claim 15 - The bed of claim 14 including a zone of increased radiation disposed on said canopy and oriented to address a face area of said user, said zone of increased ultraviolet radiation formed from a plurality of clusters of high output ultraviolet radiation, each cluster constrained to operate within a boxed-shaped well secured to an inverted support tray and separated from a tanner by a window.

Claim 16 - The bed of claim 15 including a plurality of fans oriented upstream from said zone of increased ultraviolet radiation to augment air flow in the face area.

Claim 17 - A tanning bed comprising in combination:

a plurality of modules collectively defining components of said tanning bed, said components including bench supports, a bed, and a canopy, wherein said bench supports fasten to said canopy and a pair of posts project upwardly from said bench supports in frictional telescoping relationship, said posts including a pivot that supports a link operatively coupled to said canopy and adapted to allow said link and said canopy to move from a first open position wherein a tanner can lie on the bed to a second closed position where said canopy is in overlying relationship with respect to said bed and said tanner, and gas shock means operatively coupled with said link and

said post in a path of heat radiation whereupon gas within said shock elevates in temperature upon utilization of said bed increasing the effectiveness of said gas shock; and

knock-down coupling means for assembling said components into an operational tanning bed.

Claim 18 - A tanning bed comprising in combination:

a plurality of modules collectively defining components of said tanning bed, said components includes a bench and bench supports; and

knock-down coupling means for assembling said components into an operational tanning bed, wherein said knock-down coupling means includes attachment of said bench to said bench supports on one edge thereof by means of a projection on said bench support being received within a complementally formed slit on said bench, said slit provided with adequate clearance to allow articulation of said bench about said projection.

Claim 19 - A tanning bed comprising in combination:

a plurality of modules collectively defining components of said tanning bed, said components including a bench and a bench support; and

knock-down coupling means for assembling said components into an operational tanning bed, wherein said knock-down coupling means includes a slit on the side of said bench which receives a hook supported on said bench support, said hook having releasable fastening means to release said bench relative to said bench support.

Claim 20 - A tanning bed, comprising, in combination:

a plurality of modules collectively defining components of said tanning bed wherein said components include illumination means; and

knock-down coupling means for assembling said components into an operational tanning bed, wherein said knock-down coupling means includes a removable cover for said illumination means, said cover having air channeling means integrated therewith.

Claim 21 - A tanning bed, comprising, in combination:

a plurality of modules collectively defining components of said tanning bed, and

knock-down coupling means for assembling said components into an operational tanning bed, said knock-down coupling means including integrally-formed panels, wherein said integrally-formed panels are independently removable.

Claim 22 - A tanning bed, comprising, in combination:

a plurality of modules collectively defining components of said tanning bed, and

knock-down coupling means for assembling said components into an operational tanning bed wherein a bench is attached to bench supports on one edge thereof by means of a projection on said bench support being received within a complementally formed slit on said bench, said slit formed as removable cap on said bench.

Claim 23 - A tanning bed, comprising, in combination:

a plurality of modules collectively defining components of said tanning bed, and

knock-down coupling means for assembling said components into an operational tanning bed wherein a canopy is attached to a bench on one edge thereof by means of a projection on said bench support being received within a complementally formed slit on said bench, said slit formed as removable cap on said canopy.

Claim 24 - A tanning bed, comprising, in combination:

a plurality of modules collectively defining components of said tanning bed, wherein said components include plural illumination means having differing characteristics, each said illumination means being independently removable; and

knock-down coupling means for assembling said components into an operational tanning bed.

Claim 25 - A tanning bed, comprising, in combination:

a plurality of modules collectively defining components of said tanning bed, wherein said components include ventilation means whereby air is drawn into the tanning bed and exhausting means whereby said air is exhausted out of the tanning bed in a direction away from a tanner; and

knock-down coupling means for assembling said components into an operational tanning bed.

Claim 26 - The tanning bed of claim 25 wherein said components include a bench and a canopy, and wherein said ventilation means and said exhausting means operate independently in said bench and said canopy.

Claim 27 - The tanning bed of claim 25 wherein said components include a bench and a canopy, and wherein said ventilation means includes removable housings mounted on exterior extremities of said bench and/or said canopy.

Claim 28 - The tanning bed of claim 27 wherein said removable housing comprises a removable filter system.

Claim 29 - The tanning bed of claim 28 wherein said removable filter system includes an independently removable filter screen located inside said removable housing.